

TV/AM/FM Amplified Antenna

Easy to conceal, your RadioShack TV/AM/FM Amplified Antenna provides excellent reception of VHF and UHF broadcast TV channels and AM and FM radio stations in most listening locations. This antenna receives signals equally well from any direction, and its supplied power injector helps boost the signal through a long coaxial cable for better reception. You can connect the antenna's 75-ohm connector directly to your TV or FM receiver and the antenna's AM antenna wire directly to your AM receiver. The antenna's compact, modern styling blends well with the decor of almost any home, and you can install it in a variety of places such as in an attic, behind drapes, or in a garage. The antenna mounts vertically, letting you mount it inconspicuously.

BEFORE YOU BEGIN

Be sure to remove these items before you store or dispose of the packing material: antenna (with attached AC adapter/power injector), 1-inch mounting screws (2), and 1/4-inch screw.

To install the antenna, you need 75-ohm coaxial cable RG-59/U (such as Cat. No. 278-1319, not supplied). Depending upon your audio/video system setup, you might also need additional cables or adapters (available at your local RadioShack store).

Choosing a Mounting Location

To get the best performance from your antenna, select a mounting location indoors as high as possible on a flat surface, such as the wall behind your drapes. Make sure the front of the antenna faces the general direction of the nearest television or radio station's broadcasting antenna. For the best results, make sure the antenna is away from obstructions such as metal cabinets or bookshelves. (Higher frequencies are noticeably affected by obstructions.) Do not mount the antenna near any metal surface such as a refrigerator, a metal door or wall, or a water pipe hidden behind a wall. This greatly reduces the antenna's ability to receive signals.

Working with Coaxial Cable

- Do not bend coaxial cable into less than a 3-inch radius. Tighter bends can cause shorts and change the cable's impedance.
- Do not install coaxial cable where it will have a pulling tension of greater than 50 pounds, or where it will be crushed, stuffed, wedged, or pinched.
- Use only round-headed staples. Any clamps or securing devices used with coaxial cable should grip the cable evenly about the circumference without crushing the cable. Flat staples can damage coaxial cable.
- Do not expose coaxial cable to a temperature greater than 176°F (80°C). Keep the cable away from heating vents and water heaters.

ASSEMBLING THE ANTENNA

1. Remove the packing material from between the antenna's halves, then unfold the antenna.
2. Align the holes on the inside edge of one of the antenna's halves with the pins on the antenna's other half. Then press the halves together.

(illus)

3. Using a Phillips screwdriver, drive the supplied 1/4-inch screw into the hole between the antenna's halves to secure them.

(illus)

CONNECTING THE ANTENNA

Caution: Do not connect devices such as amplifiers, splitters, combiners, or matching transformers between the AC adapter/power injector and the antenna. Such connections might cause a short in the amplifier's power source. If this happens, the antenna's indicator will not light and the signals to your video equipment (multiple TVs or VCRs) might be significantly degraded.

1. Connect one end of a 75-ohm coaxial cable to the antenna terminal on the AC adapter/power injector.

Note: If your existing antenna cable is 300-ohm cable, you must replace it with 75-ohm coaxial cable. (300-ohm cable requires a matching transformer that significantly interferes with the antenna's operation.)

2. Connect the other end of the coaxial cable to your TV antenna input terminal or your radio's FM antenna input terminal.

If your TV has screw terminals for VHF/UHF connection, connect a 75-to-300 ohm transformer (such as Cat. No. 15-1140, not supplied) between the power injector and the VHF/UHF terminals.

If your TV has a 75-ohm VHF connector and a 300-ohm UHF connector, connect a signal splitter (such as Cat. No. 15-1231, not supplied) between the power injector and the TV's VHF/UHF connector.

3. Connect the end of the AM antenna wire to your radio or tuner's positive (+) AM antenna input terminal.
4. Plug the antenna's AC adapter into a standard AC outlet.

POSITIONING THE ANTENNA

Before you mount the antenna, follow these steps to find the best mounting location.

1. Turn on your TV, then tune it to any station broadcasting on Channels 2–6.
2. While holding the antenna vertically, position it as high as possible at the mounting location you selected.
3. Slowly move the antenna from side to side along the mounting location until you receive the clearest picture and sound, then note the antenna's location.
4. Tune your TV to any station broadcasting on Channels 7–13. Repeat Step 3 until you receive the clearest picture and sound then note the antenna's location.
5. Tune your TV to any station broadcasting on any UHF channel. Repeat Step 3 until you receive the clearest picture and sound, then note the antenna's location.

Note: If you have already located the best locations for reception of VHF signals, you will not need to move the antenna more than about 6 inches to find the best UHF reception.

6. Using the locations you noted in Steps 3–5, determine the location that allows the best reception of all channels. While holding the antenna there, turn the knob on the front of the antenna to adjust it for the best signal, then tune your TV to each channel.

If you cannot tune one or more stations, move the antenna to another location and start over.

7. When you have chosen a location, use a pencil to mark the position for the top and bottom mounting holes on the mounting surface.

If you are using the antenna to receive radio signals, repeat the above steps as required until you receive the clearest sound.

MOUNTING THE ANTENNA

1. In the location you marked in Step 7 of “Positioning the Antenna,” drill top and bottom holes slightly smaller than the supplied 1-Inch screws.

Caution: Be careful not to drill into any objects behind the surface.

2. Use a Phillips screwdriver to drive each screw into the mounting surface, leaving about 1/8 inch of the screw head extending from the mounting surface.
3. Press the top mounting hole on the back of the antenna (at the end away from the AC adapter/power injector) onto the screw. Then push down the antenna to secure it.
4. Repeat Step 3 to secure the bottom of the antenna to the mounting surface.

SPECIFICATIONS

Reception	AM, FM, VHF, and UHF	
Operating Bands	535–1605 kHz, 54–890 MHz	
Polarization	Vertical	
Reception Direction	Omnidirectional	
Signal Gain:		
VHF, FM, UHF		Variable, up to 42 dB
AM		5 dB
Output Impedance:		
VHF, FM, UHF		75 Ohms
AM		1 kOhm
Power Supply	120 VAC AC-to-DC Adapter	
Dimensions (HWD)	57 ¹ / ₄ × 3 ¹ / ₁₆ × 1 ¹ / ₈ Inches	
		(145 × 7.7 × 2.8 cm)
Weight (with AC adapter/power injector)	1.2 lb
		(3.91 kg)

Specifications are typical; individual units might vary.
Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. RadioShack Customer Relations, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 76102

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